

L 09008-67

ACC NR: AP6027785

microscope reveal thin lamellae of the  $\gamma$ -phase and spherical zones. The lamellae of the  $\gamma$ -phase, which have a hexagonal structure, produce on the photographs a contrast similar to packing defects in face-centered crystals. The quenched ternary alloy Al-Cu-Ag is characterized by pile-ups of defects, which show up as black dots on the photographs (Fig. 1, a).

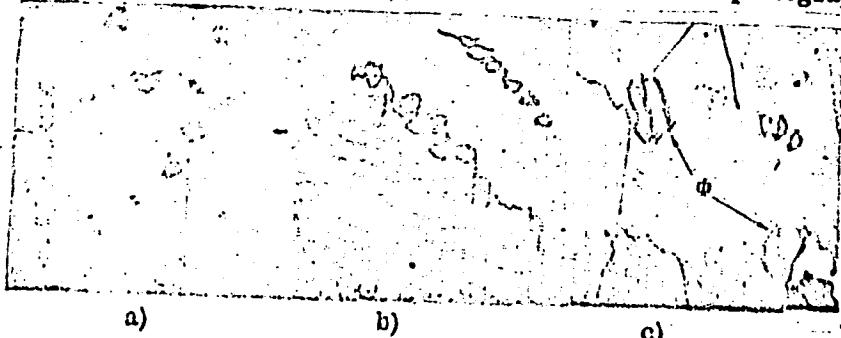


Fig. 1. Electron microphotographs of the ternary alloy  
( $\times 48,000$ ):  
a - after quenching; b, c - after aging at  $218^{\circ}\text{C}$  for 30 min

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L 39303-67

ACC NR: AP6027785

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It is probable that these black points represent, as in Au, pile-ups of interstitial atoms and vacancies. During aging at 218°C the vacancies acquire mobility which leads to, on the one hand, the segregation of  $\Theta^1$ - and  $\gamma'$ -crystals and, on the other, the interaction between vacancies and dislocations. After aging at 218°C for 30 min the number of the pile-ups of interstitial atoms and vacancies in the form of black dots greatly decreases and there appear helicoids, dislocation loops (Fig. 1, b) and also Frank dislocations (Fig. 1, c). By contrast, after quenching and aging at 130°C the Al-Cu-Ag alloy lacks dislocation loops and helicoids. This indicates that the mobility of vacancies at room temperature and at 130°C in this alloy is much lower than in the binary alloys Al-Cu and Al-Ag. Therefore, the processes of the diffusion of dissolved atoms in the ternary alloy are retarded, and it is this that leads to the expansion of the temperature range of existence of lamellar G. P. zones. Orig. art. has: 6 figures, 1 table.

SUB CODE: 11,20/ SUBM DATE: 30Jul65/ ORIG REF: 003/ OTH REF: 003

Card 3/3 nst

ZAKHAROVA, M.I.; KUZNETSOV, G.F.

Investigating the polygonization of aluminum. Fiz. met. i metalloved.  
(MIRA 18:8)  
18 no.2:277-282 Ag '64.

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

ZAKHAROVA, M.I.; TUMAN'YAN, Yu.A.

Calculating two-dimensional plate-type formations in the  
crystalline structure. Kristallografiia 10 no.2:181-186  
(MIRA 18:7)  
Mr-Ap '65.

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

L 65204-65 EVA(k)/EXT(1)/EXT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/

LFB/GG

ACCESSION NR: AP5020239

UR/0186/65/000/004/0050/0055

548.0 : 669.783

73

54

3

44.55

AUTHOR: Zakhareva, M. I.; Tuman'yan, Yu. A.

44.55

TITLE: Determining the relative orientation between crystals of a solid solution of Ge in Al and precipitated crystals of germanium

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 4, 1965, 50-55

TOPIC TAGS: x ray crystallography, germanium, aluminum alloy, solid solution, crystal orientation

ABSTRACT: The solubility of germanium decreases with a reduction in temperature from 5.1 wt % at 424°C to 0.30 wt % at 20°C. Therefore, germanium crystals are precipitated from the supersaturated  $\alpha$ -solid solution during tempering of a hardened aluminum alloy with 4 wt % Ge. The authors study the mutual orientation of crystals in the face-centered cubic lattice with the diamond type lattice which is found in the Al-Ge system. The orientation of the germanium crystals was determined after tempering for 6 hours at 310°C and 20 hours at 218°C from rotating-crystal x-ray photographs and Laue diffraction patterns of supersaturated single

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L 65204-65

ACCESSION NR: AP5020239

crystals of an  $\alpha$ -solid solution of Ge (4 wt %) in Al. The single crystals were prepared by slow crystallization from the melt and were homogenized at 425°C for two days. Cu-radiation was used for taking the rotating-crystal x-ray photographs. The single crystals of the  $\alpha$ -solid solution being oriented with their [100] and [011] axes parallel to the axis of rotation. It was found that most of the precipitated germanium is oriented with respect to the matrix, although some of the precipitated germanium is not oriented. The maxima of the oriented precipitation do not disrupt the symmetry of the matrix, i.e. precipitation of the second phase takes place on crystallographically identical planes. Two orientations of germanium were observed:

$$(100)_\alpha \parallel (112)_{Ge}; \quad (011)_\alpha \parallel (411)_{Ge}$$
$$(100)_\alpha \parallel (110)_{Ge} \quad (001)_\alpha \parallel (001)_{Ge}$$

A small increase in the microhardness of the alloy during tempering at 218°C confirms the x-ray data on precipitation of an equilibrium form of germanium at this temperature, since precipitation of a non-equilibrium phase ordinarily increases the hardness much more. The precipitation of a stable modification of germanium does not conform to the principle of structural and dimensional correspondence.

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L 65204-65

ACCESSION NR: AF5020239

which is apparently due to the unoriented precipitation with two types of oriented precipitation. Orig. art. has: 1 figure, 3 tables.

ASSOCIATION: Kafedra fiziki kristallov Moskovskogo gosudarstvennogo universiteta  
(Department of Physics of Crystals, Moscow State University) 44.45

SUBMITTED: 26Apr64

ENCL: 00

SUB CODE: SS

NO REF Sov: 003

OTHER: 002

dm  
Card 3/3

ZAKHAROVA, N.I., KUZNETSOV, G.F.

Recrystallization and polygonization of aluminum. Dokl.  
AN SSSR 159 no.1 1964 N '64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.  
Predstavлено академиком А.А. Бочваром.

~~CONFIDENTIAL~~, Pg. 1.; ~~CONFIDENTIAL~~, Pg. D.

"Investigation of eutectoid transformation in the Cu-Sn and Cu-Be alloys."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome,  
9 Sep 63.

Physics Dept, Moscow State Univ, Leninskiye Gory, Moscow.

ZAKHAROVA, M.I.; KHATANOVA, N.A.

Changes in the substructure of the matrix during the decomposition  
process of supersaturated solid solutions in aluminum alloys. Issl.  
po zharoproch. splav. 10:64-67 '63. (MIRA 17:2)

ZAKHAROVA, M.I.; MOGARYCHEVA, I.B.

Euteccoid transformation in copper - lead and copper - beryllium  
alloys. Kristallografiia 8 no.4:604-609 Jl-Ag '63.(MIRA 16:9)

1. Meskovskiy gosudarstvenny universitet imeni Lomonosova.  
(Copper-lead-beryllium alloys)  
(X-ray diffraction examination)

L 18364-65 EMT(m)/EWA(d)/EPR/T/EMP(t)/EMP(k)/EMP(b) Pf-4/Ps-4 IJP(c)/  
ASD(f)-2/SSD(c)/ASD(a)-5/ASD(m)-3 JD/HF S/0126/64/018/002/0277/0282  
ACCESSION NR: AP4044156

AUTHOR: Zakharova, M. I.; Kuznetsov, G. F.

TITLE: Investigation of the polygonization of aluminum

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 2, 1964, 277-282

TOPIC TAGS: aluminum single crystal, polygonization, diffraction pattern,  
annealing, deformation

ABSTRACT: A focusing method was applied in the investigation of the effect of deformation on polygonization in 99.99% pure Al single crystals with a different orientation in regard to the axis of elongation. After annealing for one hour at 550C, specimens were deformed by 2% and subsequently by 10% and held for 640C for 2 to 4 hours. Annealing for 8 to 170 hrs. at 450C produced no recrystallization. Despite renewed annealing at 600C for 165 hrs. recrystallization was not observed but polygonization had occurred. Specimens deformed by 10%, annealed for 30 min. at 450 C and reannealed at the same temperature for 17 hrs. pro-

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L-18364-65  
ACCESSION NR: AP4044156

duced a diffraction pattern with individual point peaks caused by the polygoniza-  
tion. The peaks were disintegrated from each other by several minutes. All speci-  
mens showed a very strong reflection with a bright stable center.  
stable structure. Orig. art. has 4 figures

ASSOCIATION: Moskovskiy gosuniversitet imeni M. V. Lomonosova (Moscow  
State University)

SUBMITTED: 12Aug53

ENCL: 00

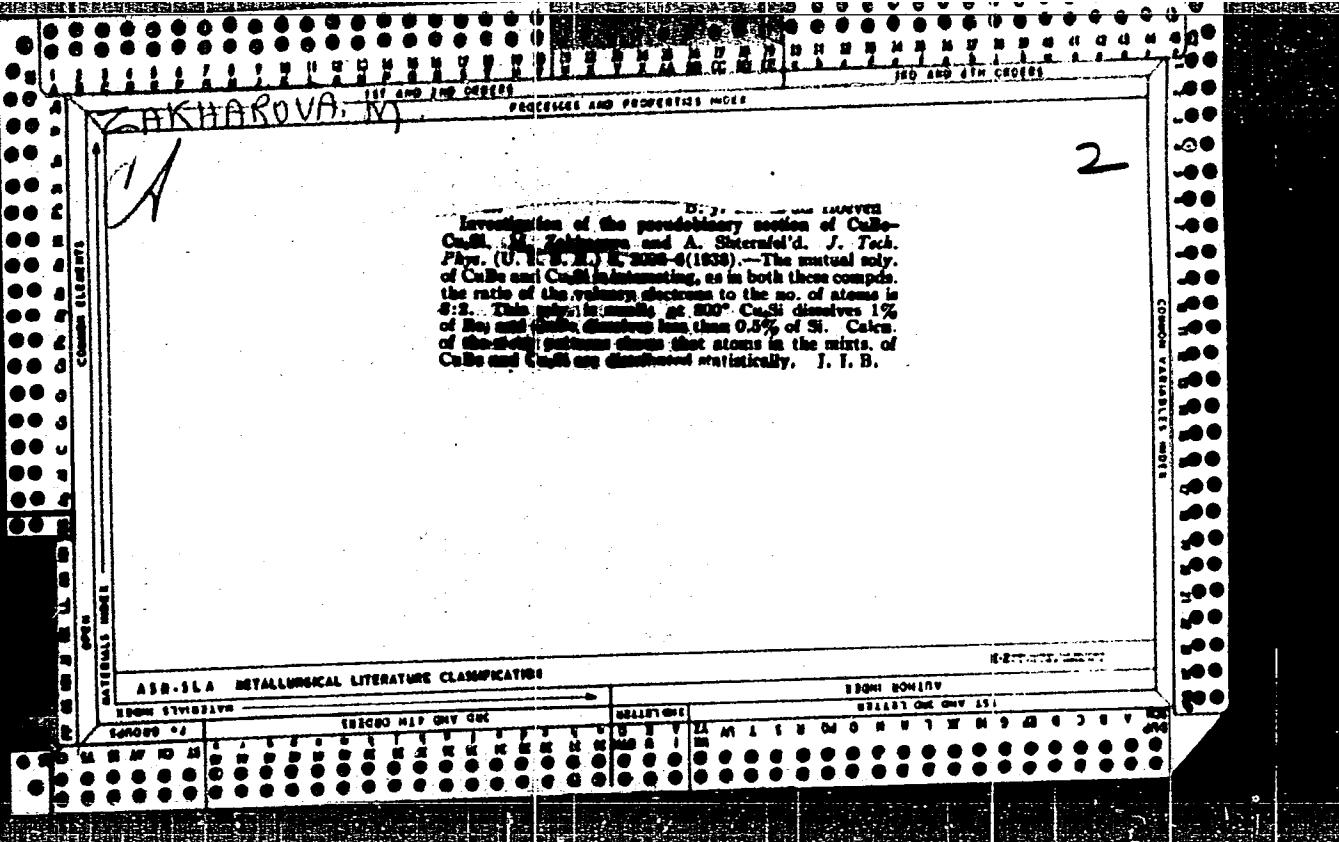
SUB CODE: MM

NO REF SOV: 003

OTHER: 001

Card 2/2





Zakharova, M.

The Transition Structure in Copper-Nickel-Iron Alloys. D.  
Bell and M. Zakharova [Doklady Akad. Nauk S.S.R., 1954,  
98, (3), 447-450] (Russian). The theoretical derivation  
of a more exact model of the initial stage of decomposition of  
solid soln. in Cu-Fe-Ni alloys below 800° C. is presented.  
The considerations take into account the amounts of the  
separating phases and are in agreement with the X-ray-  
diffraction studies of the alloys carried out by Daniel and  
Lipson (Proc. Roy. Soc., 1943, [A], 181, 987; M.A., 11, 10).  
S.K.L.

Zakharpova, M. M.

*Chem*

Phosphorylation of mercaptans, diaryl phosphates, and alkyl phosphinic acids / A. N. Pudovik and M. M. Zakharpova (State Univ., Kazan). Uchenye Zapiski Kazan. Univ. 113, No. 3, 3-12 (1955). — To 7 g.  $\text{CH}_3\text{CHPO(OEt)}$  and 4.8 g. PhSH was gradually added satd. EtONa in EtOH maintaining the temp. below 60-5°; distn. of the react. gave 7.8 g.  $\text{PhSCH}_2\text{CH}_2\text{P(O)(OEt)}$ , b.p. 203-4°, n<sub>D</sub><sup>20</sup> 1.5270, d<sub>4</sub><sup>20</sup> 1.1440 (e<sub>1</sub><sup>25</sup> and d<sub>1</sub> listed for the compds. below).

Similarly, 1-methoxy-3-pentene-3-thiol gave 70%  $\text{MeOCH}_2\text{CH}_2\text{CH}(\text{CH}_2\text{SCH}_2\text{CH}_2\text{P(O)(OEt)})_2$ , b.p. 185-7°, 1.4820, 1.0723, while 1-ethoxy-3-pentene-3-thiol gave 62%  $\text{EOCH}_2\text{CH}_2\text{CH}(\text{CH}_2\text{SCH}_2\text{CH}_2\text{P(O)(OEt)})_2$ , b.p. 191-2°, 1.4793, 1.0465, and 1-2-butene-4-thiol gave 65%  $\text{MeCH}_2\text{CHCH}_2\text{SCH}_2\text{CH}_2\text{P(O)(OEt)}$ , b.p. 120-2°, 1.4090, 1.0138. Similar reaction of 6.3 g.  $\text{CH}_3\text{CHPO(O)(OR)}$ , and 5.5 g. D<sub>2</sub>O/PhSH in EtOH gave 7.8 g.

*C. M. K. - solipoff*

ZAKHAROVA, M.M.

36-71-3/16

AUTHOR: Pyatygina, K.V., Zakharova, M. N.

TITLE: Advance Computation of Cyclone Center Displacement  
(Predvychisleniye peremeshcheniy tsentrov tsiklonov)

PERIODICAL: Trudy Glavnay geofizicheskoy observatorii  
, 1957, Nr 71, pp. 49-59(USSR)

ABSTRACT: Preliminary evaluation of the trajectories of cyclones and anticyclones is of great importance in weather forecasting. The general theory of displacement of baric centers given by M. I. Yudin is based on equations of atmospheric dynamics where a baric center is characterized by an extreme of pressure. The question is discussed only mathematically. Deflection of wind from the geostrophic and conditions for the latter's existence are examined. Considering the formation and disappearance of surface baric centers, the writer concludes that the speed of displacement of the center mentioned is proportional to the degree of the wind's deflection from geostrophic and inversely proportional to the density of isohyetal lines. By substituting values for surges of heat, statics and continuity, Yudin obtains for the components of geostrophic wind a final equation which he further transformed into a suitable form for calcula-

Card 1/2

POZNER, Viktor Mikhaylovich; KIRINA, Tamara Il'инична; PORFIR'ЕEV, Gleb Sergeyevich. Uchastvovali: APRODOVA, A.A.; VISSARIONOVA, A.Ya; ZAKHAROVA, M.M.; KILIGINA, M.L; KOVIAZINA, N.N.; LUN'YAK, I.A.; MUSINA, K.K.; ORLOVA, I.N.; SAVINOVA, S.I.; FAZLOVA, Ye.N.; TERENT'YEVA, V.D.; FADEIEVA, M.I.; CHERNOVA, Ye.I.; SHEL'NOVA, A.K. TIKHIY, V.N.,red.; DAYEV, G.A.,ved.red.; GENNAD'YEVA, I.M.,tekhn.red.

[Volga-Ural oil-bearing region; Carboniferous sediments] Volgo-Ural'-skaya neftegazovaya oblast'. Kamennougol'nye otlozheniya. Leningrad, Gos.nauchn.tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1957. 287p. (Leningrad. Vsesotsuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy no.112) (MIRA 11:12)  
(Volga Valley--Geology, Stratigraphic)  
(Ural Mountain region--Geology, Stratigraphic)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610012-2

ZAKHAROVA, M.N., kand.ped.nauk; ABROSMOVA, L.L., vrach

Cycling. Zdorov'e 5 no.4:24 Ap '59.

(MIRA 12:4)

(CYCLING)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610012-2"

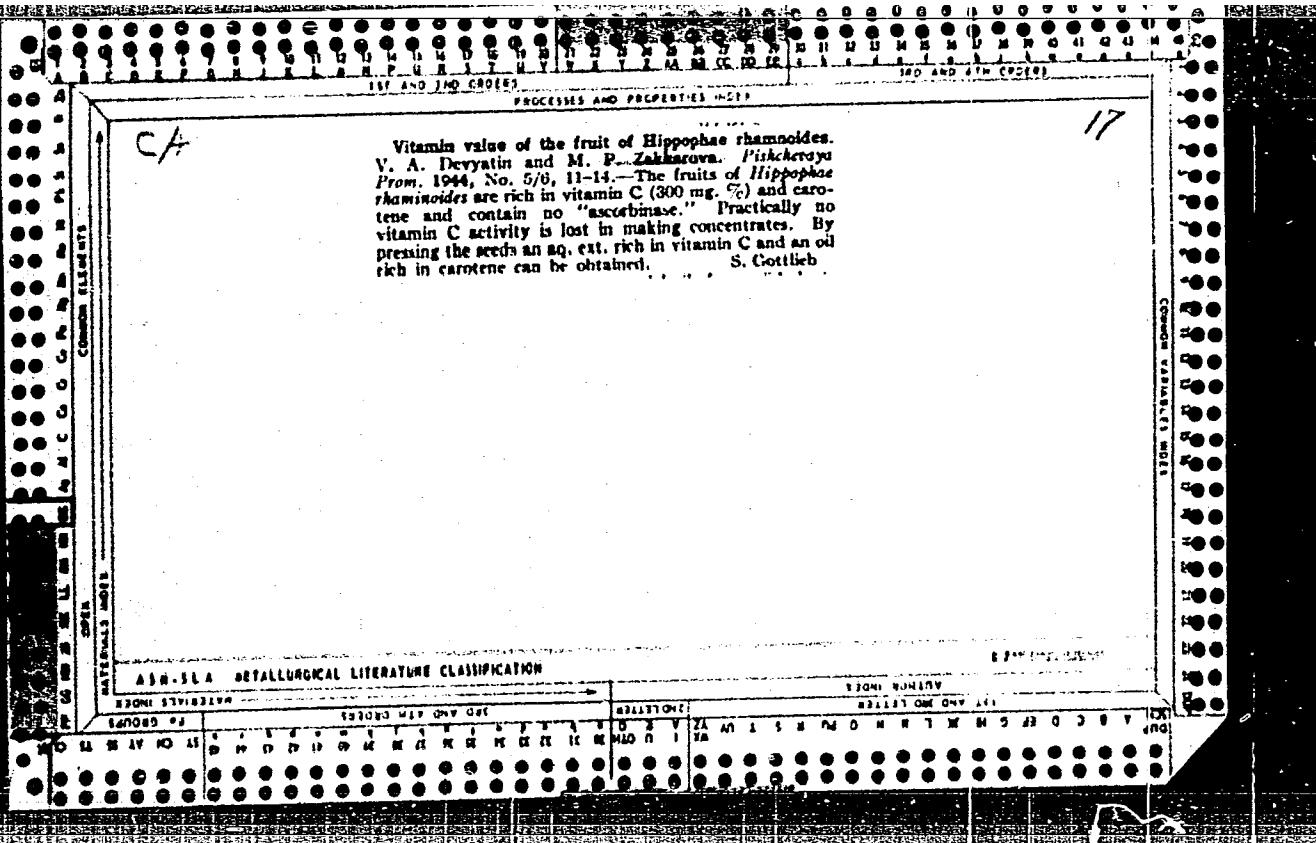
ZAKHAROVA, M.N.

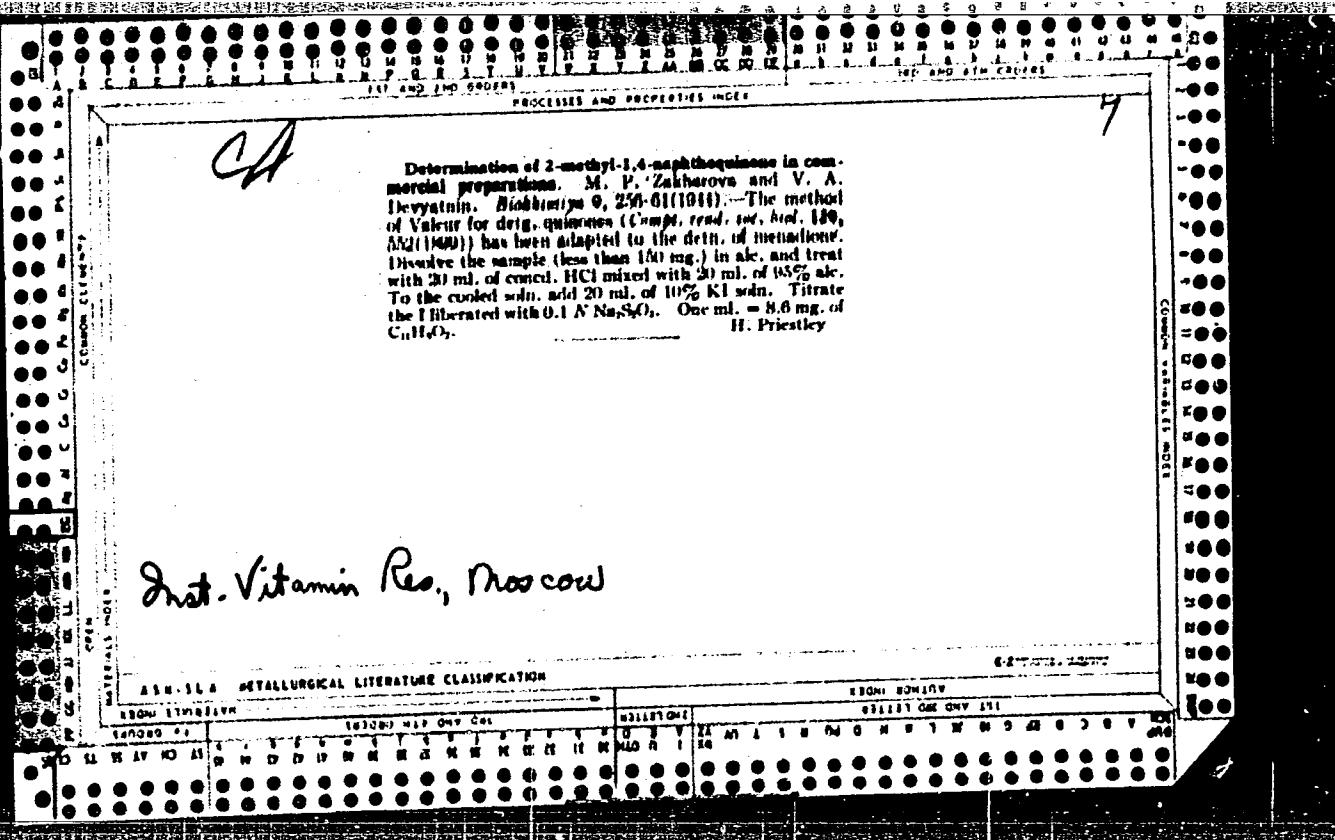
PYATYGINA, K.V.; ZAKHAROVA, M.N.

Calculation of the displacement of cyclone centers. Trudy 660  
no.71:49-65 '57. (MIRA 10:10)  
(Cyclones)

GANDIN, L. S.; BAGROVA, Ye.I.; ZAKHAROVA, M.N.; MESHCHERSKAYA, A.V.

Static control of aerological telegrams. Trudy GGO no.151:3-16  
'64 (MIRA 17:7)





ZAKHAROVA, M. P.

ZAKHAROVA, M. P. -- "Vitamin E. in Plant Tissues." Sub 26 Jun 52, Inst  
of Biochemistry imeni A. N. Bakh, Acad Sci USSR. (Dissertation for the  
Degree of Candidate in Biological Sciences).

SO: Vechernaya Moskva January-December 1952

ZAKHAROVA, M.P.

USER

The determination of 2-methyl-1,4-naphthoquinone in its water-soluble derivatives. M. D. ZAKHAROVA and V. A. Dovgaliuk. *Trudy Vsesoyuz. Nauch.-Issledovatel. Vitamin. Inst.* 4, 236-6 (1953).—Dissolve 100-250 mg. in 20-30 ml. distd. H<sub>2</sub>O. Add dropwise a 1% H<sub>2</sub>O soln. of NaOH or KOH. Filter, wash 2-3 times with H<sub>2</sub>O, dissolve in 95% EtOH, transfer to 50-100-ml. volumetric flask with 2-3 washings, add alc. to mark, and take 10-ml. aliquots for titrus. as described (cf. *C.A.* 39, 3224). B. S. Levine.

25

ZAKHAROVA, M.P.

Conjugated vitamin E-protein complexes. M. P. Zakharova. Prudy Vseroyaz. Nauch. Issledovat. Vitamin. Tsent. 3, 185-9 (1954); Referat, Zhur. Khim. Biol. Khim. 1955, No. 10707.—Vitamin E (I) was found in plants in

loose and firm union with proteins. The content of free I in cabbage is approx. 20%; loosely-combined ether extractable after alc. denaturation is approx. 60%, and that firmly bound with protein (etherized) which can be freed only after alkaline treatment and alc. denaturation is approx. 20%. I can be freed from its union with proteins by hydrolytic enzyme activity. The repeated pptn. of protein with  $(\text{NH}_4)_2\text{SO}_4$  carries down I with the pptd. proteins.

B. S. Levine

ZAKHAROVA, M.P.

Formation and localization of vitamin E in plant. M. P.  
Zakharova. Trudy Vsesoyuz. Nauch. Issledovatel. Vitamin.  
Tsentra, 6, 129-33 (1954).—The formation of vitamin E in  
lucerne leaves occurs most energetically after max. accumula-  
tion of chlorophyll and carotene, while phytin does not  
appear to be essential. Biosynthesis of vitamin E in sprout-  
ing seeds can occur in the dark, in contrast to carotene and  
chlorophyll formation. However, vitamin E synthesis is  
definitely stimulated by light. G. M. Kozolaj

ZAKHAROVA, M.P.

The antioxidant properties of vitamin E. M. P. Zakharova. *Trudy Vsesoyus. Nauch. Issledovani. Vitamin. Issled.* 1954, No. 107, p. 163-6. MD  
1955, No. 107, p. 15.—That tocopherol (I) stabilizes carotene (II) dissolved in fat against oxidation was demonstrated by tests with corn and sunflower seed oil and with lard. The addition of I to lard helps to preserve II, and depends upon the quantity of I added. After 45 days in the presence of 75 mg. % of I at 30° II decreased from 164 to 80 mg. %; in the presence of 100 mg. % of I, II was reduced to 100 mg. % and with of 125 mg. % of I, II decreased to only 110 mg. %. If no, I is present II disappears almost completely in 2 days at 30°. B. S. Levjic.

ZAKHAROVA, M. P.			

Content of vitamin E in some food products. M. P. Zakhareva. Trudy Vsesoyuz. Nauch.-Issledovatel. Vitamin. Issn. 5, 178-84 (1954). Examn. of a large variety of common food products showed that vitamin E content is highest in leafy green vegetables (5-18.7 mg. %) and wheat-germ oil (180-250 mg. %). Normal varied human diet appears to be amply adequate.

E in some food products. M. P.

Zakhareva. Trudy Vsesoyuz. Nauch.-Issledovatel. Vitamin.

Issh. 5, 178-84 (1954). Examn. of a large variety of common food products showed that vitamin E content is highest in leafy green vegetables (5-18.7 mg. %) and wheat-germ oil (180-250 mg. %). Normal varied human diet appears to be amply adequate.

Normal varied human diet appears to be amply adequate.

M. P. Zakhareva

ZAKHAROV, M. P.

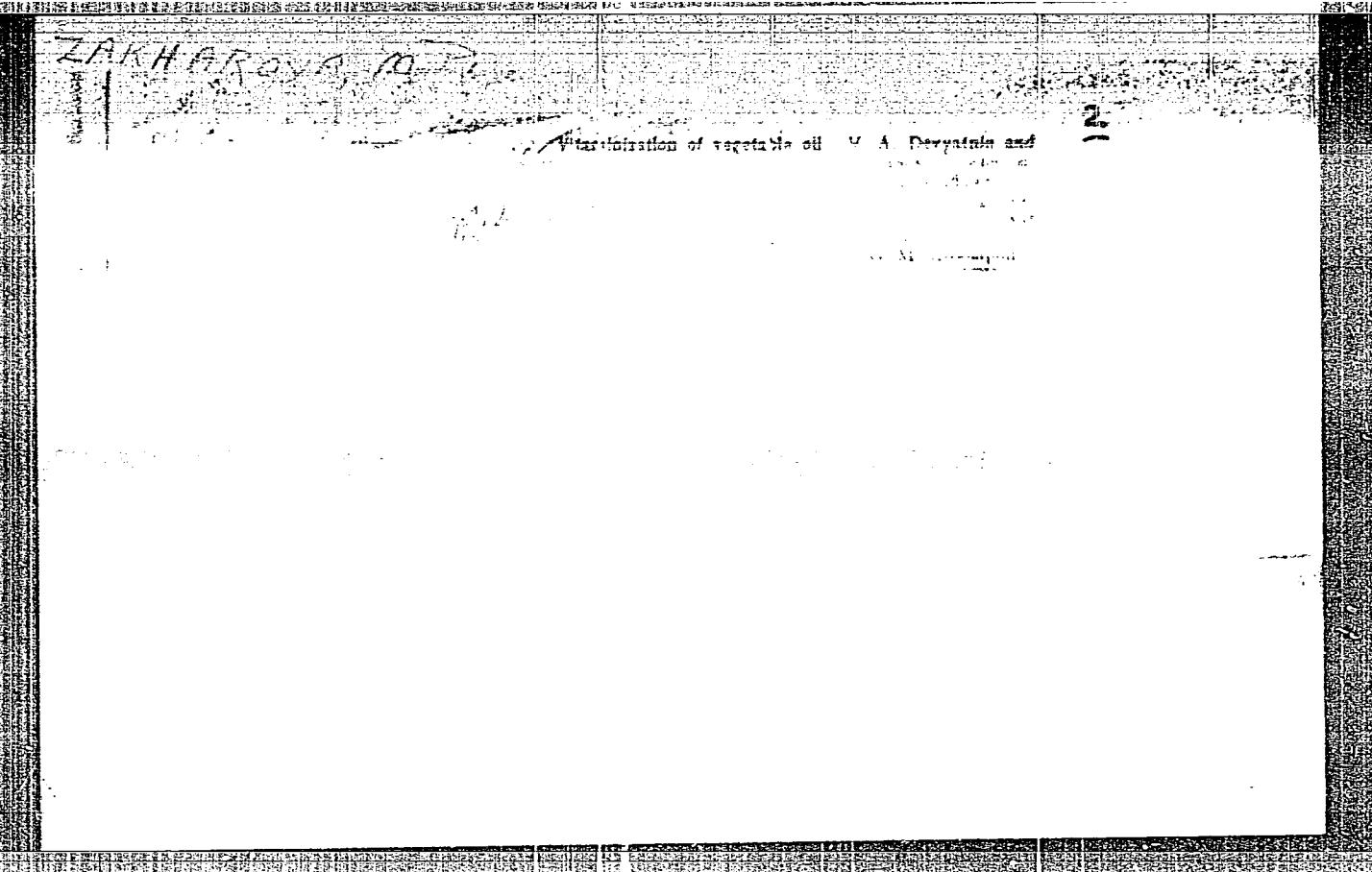
Properties of fatty oil from dog-rose seeds. V. A. Dev-  
jatko, N. S. Ponomarenko, and G. M. Kosolapoff. Much  
yields a red-brown oil, d. 0.9122, f.p. -12°, n<sub>D</sub><sup>20</sup> 1.4905,  
n<sub>D</sub><sup>20</sup> 1.4942, n<sub>D</sub><sup>25</sup> 1.4907, with 47.0% linoleic acid, 3.9 mg.  
K, 1.0 mg. A, 0.001 mg. The oil contains 2.3%  
abnormal acids, 1.6% carotene (0.1 mg.), vitamin B (0.001 mg.)  
etc. The latter is rapidly destroyed in storage in the oil.

G. M. Kosolapoff

2  
*Med*

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610012-2



APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610012-2"

MARTINSON, Ye.N.; ZAKHAROVA, M.P.; ALASHKEVICH, M.L.; KHOKHLOV, I.M.;  
KHOKHLOV, I.M.; SHIRYAYEV, A.G.; KASTORNYKH, M.S.

Obtaining vitamin E concentrates by means of high-vacuum distil-  
lation. Trudy VNIVI 6:75-81 '59. (MIRA 13:7)  
(DISTILLATION) (TOCOPHEROL)

ZAKHAROVA, M.P.; KASTORNYKH, M.S.

Isolation of tocopherols by chromatography. Trudy VNIIVI 6:  
88-92 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
Biokhimicheskaya laboratoriya.  
(TOCOPHEROL)

NIKOLAYEV, R.P.; ZAKHAROVA, M.P.; ROMANOVA, A.F.

New preparations of vitamins A, D, and B<sub>12</sub> for feeding purposes.  
Trudy VNIVI 6:137-144 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
Biokhimicheskaya laboratoriya.  
(VITAMINS)

NIKOLAYEV, R.P.; ZAKHAROVA, M.P.; ROMANOVA, A.F.

Dry, highly dispersed, stable preparations of fat-soluble  
vitamins for prophylactic and therapeutic purposes. Trudy  
VNIVI 6:144-147 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
Biokhimicheskaya laboratoriya.  
(VITAMINS)

ZAKHAROVA, M.P.

Vitamin B<sub>12</sub> from waste water. Trudy VNIIVI 6:151-157 '59.  
(MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
Biohimicheskaya laboratoriya.  
(CYANOCOBALAMINE)

ZAKHAROVA, M.S.

Action of various antibiotics on whooping-cough bacteria  
M. S. Zakharova and L. A. Pecherina (N. F. Gamaleya  
Institute of Epidemiology and Microbiology, Academy of Medical Sciences of USSR,  
Moscow). Zhur. Mikrobiol., Epidemiol. i Immunobiol.,  
1954, No. 3, p. 7. - Bismacine, 0.4G g per ml., and levomycin  
tin, 4.3-9.1G g per ml. of synthetic media, inhibit growth of  
whooping-cough bacteria. Whooping-cough infection in  
mice can be prevented if either antibiotic is administered  
immediately or on the day following infection (twice daily in  
doses of 0.2 g, for 10-11 days). The duration of treatment  
by bismacine can be shortened to 5 days if administered 2  
days before infection and 3 days after. Bismacine effectiveness  
is greatly reduced if administered 6 days after infection.  
L. A. Katsol

ZAKHAROVA, M.S.

POPOVA, L.M.; ZAKHAROVA, M.S.

Chronic tick-borne encephalitis; experimental observations. Zhur.  
mikrobiol. epid. i immun. no.10:54-58 O '54. (MLRA 8:1)

1. Iz Instituta nevrologii AMN SSSR (dir. prof. N.V.Konovalov) i  
iz otdela virologii Instituta epidemiologii i mikrobiologii imeni  
pochetnogo akademika N.F.Gamelei AMN SSSR (dir. prof. V.D.Timakov)  
(ENCEPHALITIS, EPIDEMIC, experimental.)

ZAKHAROVA, M.S.; LAPAYEVA, I.A.

Serological study of protective ultrasound-treated sorbed whooping cough antigen. Zhur. mikrobiol., epid. i immun. 33 no.11:110-115 N '62. (MIRA 17:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

ZAKHAROVA, M. S.

"Experimental Study of a Vaccine Against Whooping Cough." Proceedings of Inst. Epidem and Microbiol im. Gomaleya 1954-56.

Other Personnel Identified as Participants in Sessions of the Institute's Scientific Council Held During 1955. Inst. Epidem and Microbiol im. Gomaleya AMB USSR

SO: Sum 1186, 11 Jan 57.

ZAKHAROVA, M. S.  
USSR/Medicine - Whooping cough

FD-2310

Card 1/1 Pub 148 - 11/36

Author : Zakharova, M. S.; Dadash'yan, M. A.; Bostrem, G. G.; Pospelova,  
L. A.

Title : Application of biomycin for the treatment of patients with whooping  
cough

Periodical : Zhur. mikro. epid i immun. No 2, 34-37, Feb 1955

Abstract : Describe favorable results obtained in the therapy with biomycin  
of whooping cough affecting children. One reference, USSR, since  
1940. Two tables.

Institution : Division of Children's Infectious Diseases, 2 d Moscow Medical  
Institute imeni I. V. Stalin; Institute of Epidemiology and Micro-  
biology imeni N. F. Gamaleya, Academy Medical Sciences USSR

Submitted : July 8, 1954

ZAKHAROVA M. S.

USSR / Microbiology. Microbes Pathogenic for Man and F  
Animals. Bacteria. Hemophilus Bacteria.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24062

Author : Zakharova, M. S. Palkina, N. A.

Inst : Not given

Title : A Nutrient Medium for Cultivation of Whooping Cough Microbes

Orig Pub : Materialy po obmeny optyom. Gl. upr. in-tov  
vaktsin i syvorotok M-va zdravookhr. SSSR,  
1956, 2/52, 45-49

Abstract : Technical, acidic, first grade (GOST No.1211-41) casein is washed off with a 0.2% solution of acetic acid for 6-7 days, changing the solution 2-3 times daily, rinsed with distilled water, pressed out, and dried under 60-70°. In a glass container, 400 g. of casein, 400 ml.

Card 1/5

19/2001 CIA-RDP86-00513R001963610012-2  
USSR / Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Hemophilus Bacteria.  
Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24062

of chemically-pure hydrochloric acid, and 200 ml. of distilled water are mixed. The mixture is autoclaved for 3 hours under 127°. After autoclaving, the hydrolysate is diluted with distilled water to twice the volume, filtered through paper, diluted again to three times the volume, and illuminated by activated carbon, Type A, GOST 4453-48) to 1 l. The mixture is boiled for 10 min. and filtered through linen. From 400 g. of casein, about 5 l. of hydrolysate are obtained, which may be preserved for a long time with 1% of chloroform under 5-7°. Yeast dialysate is prepared from fresh-bread pressed yeast. 1 kg. of yeast is

ZAKHAROVA, M.S.

LEBEDEV, D.D.; DADASH'YAN, H.A.; ZAKHAROVA, M.S.

Epidemiological effectiveness of whooping cough vaccine. Vop. okh.  
mat. i det. 2 no.4:3-6 J1-Az '57. (MLRA 10:9)

1. Iz Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei  
AMN SSSR (dir. S.N. Murontsev) i II Moskovskogo gosudarstvennogo  
meditsinskogo instituta imeni N.I. Priogova (dir. O.V. Kerbikov)  
(WHOOPING COUGH--PREVENTIVE INOCULATION)

ZAKHAROVA, M.S., red.; ZUYEVA, N.K., tekhn.red.

[Specific prevention of whooping cough; works of a conference held jointly with research and practice institutions, March 5-6, 1958]. Spetsificheskaya profilaktika kokliusha; trudy nauchnoi konferentsii, provedennoi sovremeno s nauchno-issledovatel'skimi i prakticheskimi uchrezhdeniyami 5-6 marta 1958 g. Pod red. M.S. Zakharovoi. Moskva, Gos.izd-vo med.lit-ry, 1958. 189 p.

(MIRA 13:4)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut epidemiologii i mikrobiologii. 2. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei AMN SSSR (for Zakharova).

(WHOOPING COUGH)

ZAKHAROVA, M. S.

**Specific properties of pertussis**, published by Pustoz. Moscow, 1950  
Star. Lab. of Specific Properties of Pertussis  
Inst. Hygiene and Microbiology  
Acad. Medical Sci., USSR

At the scientific conference on the specific properties of pertussis conducted by  
the Institute of Hygiene and Microbiology in Leningrad, together with other  
institutes and medical establishments, papers were read by  
the following (see Table of Contents)

1. V. Gavrilov (Inst. of Hygiene and Microbiology, Star. N. P. Smirnov) Effectiveness of specific products of pertussis	12
2. V. Gavrilov and I. S. Lazareva (same as above): Effectiveness of pertussis immunization in epidemiologic observations	12
3. A. Borchin (Inst. of Hygiene Inst. in Leningrad): Clinical- epidemiologic effectiveness of the pertussis vaccine in epidemic conditions (Inst. of Pediatrics and Child Health): Clinical study of pertussis vaccination with pertussis vaccine	22
4. V. Blizhnev (Inst. of Pediatrics and Child Health): Clinical study of pertussis vaccination with pertussis vaccine	22
5. S. Filatov et al. (Inst. Inst. of Hygiene, Institute of Children and Youth, Inst. of the Care of Mothers and Children of the Russian SSR): Study of the effectiveness of immunization against pertussis	22
6. G. Savchenko and K. Z. Brodsky (Central Scientific Inst. of Hygiene and Epidemiology of the Ministry of Communications) Effectiveness of vaccination with pertussis vaccine among workers in the Moscow Railroad Box Survey.	22
7. N. Gerasimova et al. (Moscow Scientific Inst. Inst. for Vaccines and Serums): Effectiveness of vaccination against pertussis in epidemiologic observations.	22
8. V. Gavrilov and V. N. Roman (see above): Epidemiologic effectiveness of pertussis-aluminate vaccination	22
9. A. Savchenko (Republican Sanitary-Epidemiologic Station of the Ministry of Health of Georgia SSR): Epidemiologic and epidemiologic effectiveness and reactogenicity of the pertussis- aluminate vaccine	22
10. N. Shil'yanov et al. (Inst. of Hygiene Inst. in Leningrad): Effectiveness and epidemiologic effectiveness of aluminate pertussis-aluminate and pertussis vaccines	22
11. A. Savchenko (Centralized Inst. of Hygiene, Institute of Epidemiology and Immunobiology and Epidemic Prevention): Effectiveness of the pertussis and immunologic and epidemiologic properties of pertussis and pertussis-aluminate vaccine	22
12. G. Popovskaya et al. (The Central. etc. see Gavrilov above): Effectiveness of pertussis and pertussis-aluminate vaccine in children. Institutions of the Railroad Transport System	102
13. V. G. Chirkov (Republican Sanitary-Epidemiologic Station of the Ministry of Health): Study of reactogenicity and epidemiologic effectiveness of pertussis and pertussis-aluminate vaccine	102
14. N. Gerasimova et al. (see above) and Inst. of Epidemiology above: Effectiveness of Salmonella MMR vaccine for preparation and protective antigen of the fundamental biological properties of the pertussis organism	102

Country	: USSR	F
Category	: Microbiology-Microbes Pathogenic for Man and Animal	
Abs. Jour	: Ref Zhur - Biol., No.19, 1958, 86116	
Author	: Lebedev, D.B.; Zakharova, N.S.; Dadash'yan, M.A.	
Institut.	: -	
Title	: The Use of Pertussis Vaccine in Foci	
Orig Pub.	: Zh. Mikrobiol., Epidemiol., i Immunobiol., 1958, No.3, 62-65	
Abstract	: no abstract	

Card: 1/1

-32-

ZHDANOV, V.M., red.; VASHKOV, V.I., red.toma; V redakt.toma primimali  
uchastiye: ZAKHAROVA, N.S.; KUDLAY, D.G.; PAVLOV, P.V.; RUDNEV,  
G.P.; TIMAKOV, V.D.; TROITSKIY, V.L.; KHRISTOV, L.N.; NECHAEV,  
S.V., red.; BEL'CHIKOVA, Yu.S., tekhn.red.

[Proceedings of the 13th All-Union Congress of Hygienists,  
Epidemiologists, Microbiologists, and Specialists in Infectious  
Diseases, Moscow, 1956] Trudy Vsesoiuznogo s"ezda gigienistov,  
epidemiologov, mikrobiologov i infektsionistov. Pod red. V.M.  
Zhdanova. Moskva, Gos.izd-vo med.lit-ry. Vol.2. [Section on  
epidemiology, microbiology, infectious diseases and the organiza-  
tion of public health service] Otdelenie epidemiologii,  
mikrobiologii, infektsionnykh boleznei i organizatsii zdravo-  
okhranenia. Pod red. V.I.Vashkova. 1959. 866 p. (MIRA 12:11)

1. Vsesoyuznyy s"ezd gigienistov, epidemiologov, mikrobiologov  
i infektsionistov. 13th, Moscow, 1956.  
(MICROBIOLOGY--CONGRESSES)

ZHDANOV, V.M., red.; VASHKOV, V.I., red.; ZAKHAROVA, M.S., red.;  
KUDLAY, D.G., red.; PAVLOV, P.V., red.; RUDNEV, G.P., red.  
(Moskva); TIMAKOV, V.D., red. (Moskva); TROITSKIY, V.L., red.;  
CHRISTOV, L.N., red. (Moskva); NECHAYEV, S.V., red.;  
BELL'CHIKOVA, Yu.S., tekhn.red.

[Transactions of the All-Union Conference of Hygienists, Epidemiologists, Microbiologists, and Infections Disease Specialists]  
Doklady XIII Vsесоiuznogo s"ezda gigienistov, epidemiologov, mikrobiologov i infektsionistov. Pod red. V.M.Zhdanova. Moskva, Gos. izd-vo med.lit-ry Medgiz. Vol.2. [Section on epidemiology, microbiology, infectious diseases, and the organization of the public health system] Otdelenie epidemiologii, mikrobiologii, infektsionnykh boleznei i organizatsii zdravookhraneniia. Pod red. V.I. Vashkova. 1959. 866 p. (MIHA 14:1)

1. Vsесоiuznyy s"ezd gigienistov, epidemiologov, mikrobiologov i infektsionistov. 13th.  
(EPIDEMIOLOGY--CONGRESSES)

ZAKHAROVA, M. S.

"Experimental study of the immunogenic properties of preparations  
obtained from pertussis microorganisms."

Report submitted at the 13th All-Union Congress of Hygienists,  
Epidemiologists and Infectionists. 1959

ZAKHAROVA, M.S., prof.

Principal results of research and chief problems in the field  
of specific prevention of whooping cough. Vest. AMN SSSR 15  
no. 5:33-43 '60. (MIRA 13:9)

1. Institut epidemiologii i mikrobiologii im. Gamalei AMN SSSR.  
(WHOOPING COUGH)

ZAKHAROVA, M.S.; DADASH'YAN, M.A.

Reaction potential of associated vaccines. Vest. AMN SSSR 15  
no. 10:35-39 '60. (MIRA 14:4)

l. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN  
SSSR. (VACCINES) (WHOOPING COUGH) (DIPHTHERIA)

ZAKHAROVA, M.S.; FAN'KOVSKAYA, E.K.

Use of a dry casein-carbon agar culture medium in the bacteriological diagnosis of whooping cough. Zhur. mikrobiol. epid. i immun. 32 no.7: 134-137 Je '61. (MIRA 15:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.  
(WHOOPING COUGH)  
(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)

ZAKHAROVA, M.S., LAPAYEVA, I. STEPANOVA, E.A.

The preparation and study of *boriella pertussis* protective antigen.

Report submitted to the Int'l. Congress for Microbiology  
Montreal, Canada 19-25 Aug 1952

ZAKHAROVA, M.S.

Whooping cough and the prospects for its eradication in the country. Vest. AMN SSSR 17 no.2:77-81 '62. (MIRA 15:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.  
(WHOOPING COUGH)

SEDLOVETS, M.P., kand.med.nauk; ZAKHAROVA, M.S., uchastkovyy vrach

Clinical aspects and treatment of typhoid fever from the data of a  
rural district hospital. Sov.med. 26 no.6:86-92 Je '62.

(MIRA 15:11)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V.Bunin)  
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.  
Sechenova i uchastkovoy bol'nitsy (glavnyy vrach A.I.Zakharov)  
sela Ot'yassy Sosnovskogo rayona Tambovskoy oblasti.  
(TYPHOID FEVER)

GORDINA, R.V.; ZAKHAROVA, M.S.; OSTROUKHOVA, D.I.; KURAGINA, R.V.

Data on the reactogenicity of pertussis-ciphteria-tetanus vaccine.  
Zhur. mikrobiol., epid. i immun. 40 no.9:14-18 S'63.

(MIRA 17:5)

1. Krasnodarskaya krayevaya sanitarno-epidemiologicheskaya stantsiya.

ZAKHAROVA, M.S.; SAPOZHNIKOV, I.I.; BELYAKOV-BODIN, V.I.

Cybernetic analysis of some data of immunoepidemiological studies. Zhur.mikrobiol., epid. i immun. 42 no.12:16-20  
(MIRA 1961)  
D '65.

1. Institut epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

ZAYHAROVA, M.S.

Urgent problems of specific prophylaxis of sleeping sickness.  
Vest. AMN SSSR 19 no.3:36-43 (1964) (MIA 1217)

I. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei  
AMN SSSR, Moscow.

FORUBINOVSKAYA, N.M.; ZAKHAROVA, M.S.; FURMAN, M.A.

Experience in the diagnosis of diseases caused by Mycoplasma pneumoniae. Vest. AMN SSSR 20 no.8:82-86 '65. (MIRA 18:9)

1. Institut epidemiologii i mikrobiologii imeni N.F.Camalei AMN SSSR, Moskovskiy garnizonnyy gospital' i TSentral'nyy institut usovershenstvovaniya vrachey.

ZAKHAROVA, M.S.; PANOVА-STOYANOVA, O.P.

Species-specific antisera for representatives of the *Bordetella* genus. Zhur. mikrobiol., epid. i immun. 42 no.6:60-64 '65.  
(MIRA 18:9)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR i Nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii Narodnoy Respublikи Bolgarii.

SHTUJOVA, Ye. Z.; ZAKHAROVA, M.S.

Study of the interaction of *Bacillus pertussis* and *parapertussis* with tissue cultures. Report No. 2: Reproduction of *Bacillus pertussis* and *parapertussis* in a system with chick embryo fibroblasts. *Zhur. mikrobiol., epid. i imun.* 42 no. 3:81-88 May '65. (MIKA 18:6)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

SHMELEVA, Ya.I.; ZAKHAROVA, M.S.

Study of the interaction of Hemophilus pertussis and Hemophilus parapertussis with tissue cultures. Report No.1: Comparative sensitivity of various tissues to Hemophilus pertussis and Hemophilus parapertussis. Zhur. mikrobiol., epid. i immun. 41 no.11;18-23 '65. (MIRA 18:5)

I. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

CORDINA, R.V.; ZAKHAROVA, M.S.; OSTROUKHOVA, D.I.; KURAGINA, R.V.; KORASHEVICH,  
V.P.

Epidemiological effectiveness of pertussis-diphtheria-tetanus  
vaccination. Zhur.mikrobiol.,epid.i immun. 40 no.12:9-13 D '63.  
(MIRA 17:12)

l. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR  
i Sanitarno-epidemiologicheskoy stantsii Krasnodarskogo i Stavropol'-  
skogo krayev.

ZAKHAROVA, M.S.; BAYEVA, Ye.A.; STEPANOVA, N.A.

"Titration of diphtheria and tetanus antitoxins in small quantities of blood. Zhur.mikrobiol.,epid.i immun. 40 no.12:68-72 N '63.  
(MIRA 17:12)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

ZAKHAROVA, M. V.

SKUTEL'SKIY, N.M.; ZAKHAROVA, M.V.

Practice in decreasing morbidity causing temporary disability. Sov.  
(MIRA 11:1)  
zdrav. 16 no.11:20-23 N '57.

1. Glavnnyy vrach Tumanovskoy rayonnoy sanitarno-epidemiologicheskoy  
stantsii (for Skutel'skiy). 2. Zaveduyushchiy meditsinskim punktom,  
Smolenskaya oblast' (for Zakharova)

(VITAL STATISTICS

morbidity statist. of dis. with temporary loss of working  
capacity in Russia (Rus))

(INDUSTRY AND OCCUPATIONS,  
same)

NI, L.P.; ZAKHAROVA, M.V.; PONOMAREV, V.D.

Investigating potassium aluminosilicates formed in the system  
 $K_2O - Al_2O_3 - SiO_2 - H_2O$  at 90°C. Trudy Inst.met.i bog.  
AN Kazakh.SSR 11:38-43 64. (MIRA 18:4)

STEPANOV, B.I.; ZAKHAROVA, M.V.

Relation between dye composition and color properties. Part  
2. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.2:117-124 '59.  
(MIRA 12:6)

1. Moskovskiy khimiko-tehnologicheskiy institut im. D.I. Mendeleyeva.  
(Dyes and dyeing--chemistry)

STEPANOV, B.I.; ZAKHAROVA, M.V.

Relation between the structure of dyes and color properties.  
Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.1:148-157 '59.  
(MIRA 12:6)  
1. Moskovskiy khimiko-tehnologicheskiy institut im. D.I.  
Mendeleyeva.  
(Dyes and dyeing--Wool)

PREDVODITELEV, A.A.; ZAKHAROVA, M.V.

Strength of cadmium and zinc whisker crystals, Fiz. tver. tela 7  
no.2:379-386 F '65. (MIRA 18:8)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

ACCESSION NR: AP4028434

S/0181/61/006/004/1082/1088

AUTHORS: Shvidkovskiy, Ye. G.; Predvoditclev, A. A.; Zakharova, M. V.

TITLE: Conditions for growing cadmium whiskers by vapor condensation

SOURCE: Fizika tverdogo tela, v. 6, no. 4, 1964, 1032-1088

TOPIC TAGS: whisker, acicular crystal, crystal growth, crystal synthesis, artificial crystal, cadmium, vapor condensation, argon atmosphere

ABSTRACT: This paper contains experimental results regarding the effect of argon pressure on the growth of cadmium whiskers. A method is proposed for computing the vapor oversaturation in the growing tube at which whisker formation begins. The method of crystal growing employed is described in various places in the literature (G. W. Sears. Acta Met., 3, 367, 1955; E. M. Nadgorny\*). On growing the crystals, the author noted a characteristic distribution of condensate along the growing tube. At first, condensation took place at the crystallization temperature of cadmium (320°C) at all pressures. Exceptions were observed when the growing tube was not filled with argon (residual pressure,  $10^{-6}$  mm Hg). The interval of growth at all vapor pressures from 10 to 600 mm Hg covered about 20-25°C and lay at

Card 1/2

ACCESSION NR: AP4028434

295-320C, but a change in argon pressure caused a change not only in the form of the whisker but also in the time of growth. At low pressures the numbers and sizes of crystals were much greater. Results show that a constant Cd vapor oversaturation produces acicular crystals at any inert-gas pressure; the pressure merely modifies the rate of crystal growth, increasing or decreasing the diffusion rate of cadmium atoms to the growing crystal. Computations show that the whisker crystals begin to grow at a vapor oversaturation of 0.17, which is a lower value than the 0.4 recorded by P. B. Price (Phil. Mag., 5, 473, 1960). Orig. art. has: 5 figures, 1 table, and 7 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 17Oct63

DATE ACQ: 27Apr64

ENCL: Q0

SUB CODE: PH

NO REF Sov: 004

OTHER: 009

Card 2/2

NI, L.P.; ZAKHAROVA, M.V.; PONOMAREV, V.D.

Behavior of alumina in potassium aluminate solutions at 90° C.  
Trudy Inst. met. i obog. AN Kazakh. SSR 9:76-84 '64.  
(MIRA 17:9)

L 59598-65 ENIT(m)/EPF(c)/ENP(j)/ENP(t)/ENP(b)  
ACCESSION NR: AF5017968

Pc-4/Pr-4 IJP(c) UR/0062/65/000/006/1122/1122  
542-957.+546.811.+546.711.717

JD/PM

29  
38  
B

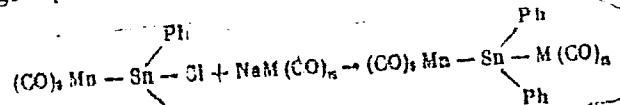
AUTHOR: Nesmeyanov, A. N.; Anisimov, K. N.; Kolobova, N. Ye.; Zakhurova, M. Yu.

TITLE: Polymetallic compounds of tin with metal carbonyls

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 6, 1965, 1122

TOPIC TAGS: organotin compound, metal carbonyl

ABSTRACT: The authors obtained new polymetallic compounds of tin with the carbonyls of metals of groups VI, VII, and VIII according to the reaction



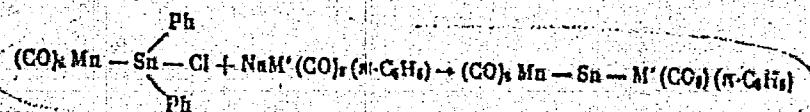
M = Co, Re

or

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1/2

L 59598-65  
ACCESSION NR: AP5017968



B

This was followed by hydrochlorination and the separation of the corresponding halo derivatives, which are tabulated. Orig. art. has: 1 table and 2 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR  
(Institute of Organometallic Compounds, Academy of Sciences, SSSR)

SUBMITTED: 23Apr65

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

AR  
Card 2/2

31-695-65 EWT(1)/SWP(e)/EWT(u)/EWP(v)/EWA(d)/T/EWP(t)/EEC(b)-2/EWP(b)/EWA(c)  
LIP(c) JD

ACCESSION NR: AP5005271

s/0181/65/007/002/0379/0386

AUTHOR: Predvoditelev, A. A.; Zakharova, M. V.

TITLE: Concerning the strength of whisker crystals of cadmium and zinc

SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 379-386

TOPIC TAGS: filamentary crystal, cadmium, zinc, strength, dislocation density

ABSTRACT: The cadmium and zinc whiskers were grown by condensation from vapor, using a method described previously by the authors (with Ye. G. Shvidkovskiy, FTT, v. 6, 1082, 1964). The strength of the whiskers was measured with a special setup built in accordance with a scheme described by H. B. M. Wolters et al (J. Sci. Inst., v. 38, 250, 1961). The load was measured with a ring dynamometer. The cross section area, necessary to determine the strength, was obtained by photography at large magnification, using the MUF-2 microscope. The diffraction effect on the edges were reduced by using ultraviolet light. The reduction of the experimental data by least squares has shown that for cadmium in the range of diameters 1--50  $\mu$  the strength is equal to  $1.7 + 211/d^2$  ( $\text{kg/mm}^2$ ), where d is the diameter in microns. In the case of zinc in the range of diameters 1--80  $\mu$ , the strength is

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2

ACCESSION NR: AP5005271

$9 + 127/d^2$ . Thus, unlike many other metals, the strength is proportional to the reciprocal of the diameter squared, and not to the reciprocal of the diameter. The values obtained for the strength are compared with the theoretical shear strength, and the possible effect of axial dislocations on the strength of whiskers is also discussed. It is assumed that the start of plastic flow is connected with the axial dislocations and their quantity, then the strength should be proportional to  $1/d^2$ , since the number of dislocations in whiskers is approximately proportional to  $d^{-1}$ . It is also possible that this behavior is peculiar to zinc and calcium only. "The authors are deeply grateful to Professor Ye. G. Svidkovskiy for his assistance in obtaining the results." Orig. art. has 5 figures, 1 formula, and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova. (Moscow State University)

SUBMITTED: 07Jul64

ENCL: 00

SUB CODE: 8S

NR RPT Sov: 009

OTHER: 021

Card 2/2

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ZAKHAROVA,  
M. Ya.

Bimetallic derivatives of the carbonyls of chromium, molybdenum,  
and tungsten. Dokl. AN SSSR 156 no. 3:612-615 '64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

LUPPOVA, N.N.; ZAKHAROVA, M.Z.

Republic conference of malarologists in Shimerlia District of the Chuvash  
A.S.S.R. Med.paraz.i paraz.bol. no.5:479 S-0 '53. (MLR 6:12)  
(Chuvash A.S.S.R.--Malarial fever) (Malarial fever--Chuvash A.S.S.R.)

S/661/61/000/006/047/081  
D244/D302

AUTHOR: Baranovskaya, N. B., Berlin, A. A., Zakharova, M. Z. and  
Mizikin, A. I.

TITLE: Vulcanization of polydimethyl siloxanes at room tempera-  
ture

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh  
soyedineniy; trudy konferentsii, no. 6: Doklady, diskus-  
sii, resheniya. II Vses. konfer. po khimii i prakt. prim.  
kremneorg. soyed., Len. 1958. Leningrad, Izd-vo AN SSSR,  
1961, 208-210

TEXT: This is a discussion in which S. N. Borisov (VNIISK, Leningrad),  
Z. N. Nudel'man (NIIRP, Moscow), I. K. Stavitskiy (VNIISK,  
Leningrad) and K. A. Rzhendzinskaya (VNIISK, Leningrad) took part.  
The authors disclosed that the cold vulcanizates preserve their  
elasticity at 200°C for 200 hours. At 300 - 350°C their working pro-  
perties deteriorate. This applies to the rubbers containing TiO<sub>2</sub>

✓

Card 1/2

Vulcanization of polydimethyl...

S/661/61/000/006/047/081  
D244/D302

and ZnO. The scheme of vulcanization proposed by the authors agrees well with experimental data; in particular, it explains the influence of the structure of organic tin compounds on their catalytic action. In addition, the character of the vulcanization process, its development and the presence of induction period can be explained by postulating the formation of intermediate complex. The swelling property of the "cold" vulcanized polymer, investigated in toluene, was the same as that of the "hot" vulcanized rubber. The viability period of the mixtures decreases with the rate of vulcanization.

Card 2/2

## AUTHORS:

Baranovskaya, N. B.,  
Zakharova, M. Z., Mizikin, A. I., Berlin, A. A.

SOV/20-122-4-17/57

## TITLE:

Catalytic Solidification of Polydimethylsiloxane  
at Room Temperature (Kataliticheskoye otverzhdeniye  
polidimetilsilosana pri komnatnoy temperatury)

## PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 603-606  
(USSR)

## ABSTRACT:

It is known that the transformation process of linear and branched alkylpolysiloxanes takes place in a non-fusible and insoluble state at 200-250° and demands a longer time. This fact complicates the process and limits the range of use of the silicon organic polymers considerably. Since nothing worth mentioning could be found in the publications (except the Refs 1, 2 for silastic /silastik/RTV) the authors decided to exploit the interaction between hydroxyl groups of the linear polydimethylsiloxanes and the alkoxy groups of the polyfunctional silicon organic monomers in order to produce tri-dimensional alkylpolysiloxanes. Such a formation method of transverse siloxane compounds is more favorable from the energetic point of view than the stripping of the hydrogen

Card 1 / 4

Catalytic Solidification of Polydimethylsiloxane  
at Room Temperature

SOV/20-122-4-17/57

or of an alkyl radical from the polymeric chain (in the case of a common thermal vulcanization) and could therefore pass at much lower temperatures. The authors investigated the catalytic activity of some orthotitanic acid esters (ethyl-, propyl-, and butyl ester) in order to find effective accelerators for this purpose. Furthermore they investigated a number of tin organic compounds (mostly of the group of the dialkyl tin which contained acetyl, capryl, and stearyl). The caprylates and stearates were synthetized for the first time. The phenomenon of cold vulcanization of liquid and rubber-like polydimethylsiloxanes was expressed in all cases by a gradual increase of the viscosity and the shear stress of the polymer, its elastic properties increased, its solubility was, however, reduced. Figures 1 and 2 show curves which illustrate the change of the shear stress ( $\tau$ ) and recovery of the polymer under the influence of the organotin and organotitanium compounds. Table 1 shows some properties of the vulcanizates. The measurement results show a great change of the vulcanization process according to the type of the used organometallic compound: orthotitanic acid ester or an organotin compound (Figs 3 and 4). The observed rules can be

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explained by the formation of an active complex (scheme page 606). The method of "cold" vulcanization worked out by the authors may be applied for the production of rubber material, cast combinations, rubber-soaked tissues, coats, and compounds which can be solidified at room temperature. The rubbers thus produced have much better properties than rubber of the same composition which was vulcanized according to the method used hitherto. Ye. N. Zil'berman, N.A. Rybakova, O. V. Nogina assisted in this paper. There are 4 figures, 2 tables, and 4 references, 1 of which is Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut aviatsionnykh materialov ( All Union Scientific Research Institute of Airplane Material)

PRESENTED: April 28, 1958, by A. V. Topchiyev, Member, Academy of Sciences, USSR

SUBMITTED: April 28, 1958  
Card 3/4

ZAKHAROVA, M. Z.

N. B. Baranovskaya, A. A. Berlin, M. Z. Zakharova and A. I. Mizikin, "The Vulcanization of Liquid and Rubber-like Polydimethylsiloxanes at Room Temperature."

Report presented at the Second All-Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1959.  
Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

COUNTRY	: USSR	Q
CATEGORY	: Farm Animals. Sheep	
ABS. JOUR.	: RZBiol., No. 13, 1958, No. 59558	
AUTHOR	: Sledzovskaya, T.; <u>Zakharova, N.</u>	
INST.	: -	
TITLE	: Winter Lambing of Sheep	
ORIG. PUB.	: Kolkhoznoye proiz-vo, 1957, No 12, 25-26	
ABSTRACT	: No abstract.	

CARD: 1/1

Q - 49

ZAKHAROVA, N.A.

Brief results of phenological observations on maples at the  
botanical garden of the Moscow University. Vest. Mosk. un.  
Ser. 6: Biol., pochv. 16 no.1:59-66 Ja-F '61. (MIRA 14:4)

1. Botanicheskiy sad Moskovskogo universiteta.  
(MOSCOW--MAPLE) (PHENOLOGY)

CA ZAKHAROVÄ, N. A.

11G

Inactivation point and coagulation threshold of proteins of sera of cancer patients. M. I. Ravich-Shcherbo and N. A. Zakharova (State Med. Inst., Kursk). Arh. Patol. 13, No. 2, 64-9 (1951).—The inactiv. point of normal serum is pH 5.20; that of cancer patients 6.77-7.39. The coagulation threshold for normal persons is 3.5-3.5 ml. of electrolyte ( $10^{-3}$  M  $\text{CaSO}_4$ ), while in cancerous cases it is 0.8-1.2 ml. Very distinct coagulation occurs at 7-7.2 ml. and 4.0-4.6 ml., resp.  
G. M. Koslapoff

- Dept. Org. & Biop.  
Chem.

Kursk State Inst.  
Inst

ZAKHAROVA, N.A.; PORAY-KOSHITS, B.A.; EFROS, L.S.

Investigation in the field of imidazole derivatives. Part 10. Acylation  
of 2-oxyethylbenzimidazole and products of its methylation. Zhur. ob.  
khim. 23 no.7:1125-1230 Jl '53. (MLRA 6:7)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.  
(Imidazole derivatives)

Zakharova N. A.

*Esters of amino alcohols and disubstituted glycolic acids.*  
 N. V. Khramov-Bacikov and N. A. Zakharova, Zkar.,  
 Obrab. Krem., 25, 2133-6 (1965).  $\text{C}_6\text{H}_5\text{CH}_2\text{COOH}$  (I), with  $\text{Et}_2\text{NCH}_2\text{CH}_2\text{Cl}$  yields some 9-fluorene. The following compds. were prep'd. by heating the corresponding acid with equimolar amts. of RCI in PhMe or PhCl 4 hrs. at 110-20° (compd. % yield, m.p. of HCl salt given):  $\text{Ph}_2\text{COOHCO}_2\text{R}'$  ( $\text{R}' = \text{CH}_2\text{CH}_2\text{NEt}_2$ ), 81.6, 174-5°;  $\text{Ph}_2\text{COOHCO}_2\text{R}''$  ( $\text{R}'' = \text{CH}_2\text{CH}_2\text{NMMe}_2$ ), 69.2, 150°;  $\text{R}'''(\text{PhCOOH})\text{CO}_2\text{R}'$  ( $\text{R}''' = 2\text{-furyl}$ ), 78.0, 143-4°;  $\text{R}'''(\text{PhCOOH})\text{CO}_2\text{R}''$ , 68.1, 177.5-8°;  $(4\text{-MeOC}_6\text{H}_4)_2\text{C(OH)CO}_2\text{R}'$ , 57.1, 187°;  $(4\text{-MeOC}_6\text{H}_4)_2\text{C(OH)CO}_2\text{R}''$ , 63.4, 191-2°;  $4\text{-MeOC}_6\text{H}_4\text{PhCOOHCO}_2\text{R}'$ , 86.2, 155-6°;  $4\text{-MeOC}_6\text{H}_4\text{PhC(OH)CO}_2\text{R}''$ , 63.9, 185-7°;  $(\text{C}_6\text{H}_4)_2\text{C(OH)CO}_2\text{R}'$ , 35.5, 150-1° (dihydrochloride). The following salts were prep'd.: 9-chlorotropobenzoic acid,  $\text{C}_6\text{H}_5\text{O}_2\text{NCl}$ , m. 141-2°; 9-chlorotropobenzoic acid, m. 167.5-8°;  $\text{C}_6\text{H}_5\text{O}_2\text{NCl}$ ; 9-chlorotropobenzylphenylacetic acid, m. 124-5°. Tropyl diphenylacetate HCl salt, m. 212-13°, was prep'd. by the reaction of  $\text{Ph}_2\text{CHCOCl}$  with tropine in PhMe, followed by treatment of the ester with dry HCl. Treatment of 1.1 g. tropine in  $(\text{CH}_2\text{Cl})_2$  at -10° with 14.15 g. SOCl<sub>2</sub> over 6 hrs., followed by refluxing 2.5 hrs. gave 9-chlorotropane HCl salt, m. 214°; 25% NaOH gave 9-chlorotropane, m. 86-8° (picrate, m. 216-16°). A little tropidine was formed as a by-product. G. M. Kusinaoff

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(2)

Distr. Experimental Res., AMS USSR

28-119-5-55/59

AUTHORS:

Polezhayev, L. V., Akhabadze, L. V., Zakharova, N. A.,  
Mant'yeva, V. L.

TITLE:

On the Regeneration of the Myocardium in Mammals (O rege-  
neratsii m'karda u mlekovitayushchikh)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 5,  
pp. 1039 - 1042 (USSR)

ABSTRACT:

It is known from experiments with mammals (References 2, 16-18) and pathological-anatomical data on man (References 1, 4) that the cardiac muscle does not regenerate after an injury or infarct, but that it forms a scar. Only newborn cats can regenerate myocardium (Reference 11). The authors tried to bring about the regeneration of myocardium in grown mammals. For this purpose they chose the method of the chemical organospecific traumatization. It is based on the influence exerted by own tissue proteins and their decomposition products, further of nucleoproteins upon the injured organ. Previous experiments (References 8, 10, 12) yielded positive

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results. Experimental-morphological, biochemical, physiolo-  
gical(electrocardiography - ECG) and histological methods  
were employed in combination. The experiments were performed  
with 80 old rats. Under an urethane narcosis and artificial  
respiration the heart was exposed and the tissue on the front  
wall of the left ventricle not far from the apex of heart  
was bloodlessly coagulated by means of an electro-diathermic  
apparatus. A white infarct-like center of injury, 4-5mm in  
size and deep, formed. The wound of operation was then sown  
up in layers. For 14-20 days the animals (except the control  
animals) received subcutaneous injections of biopreparations:  
of hydrolysates and extracts from rat hearts. The method of  
production of these preparations is described. The test animals  
were killed between the 1-st to 160-th day after the operation,  
the hearts were fixed with Gelli-liquid and the paraffin  
sections dyed. Conclusions: 1) The described center of necrosis  
is resorbed in the course of time and replaced by small centers  
of non-differentiated muscles which later decompose and dis-

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On the Regeneration of the Myocardium in Mammals

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appear. The muscles of the marginal zone are neither destroyed nor dedifferentiated nor regenerated. No microcells are formed.  
2) When the hydrolysate is given the necrotic center is reabsorbed 2 1/2 times faster. In its place muscles are newly formed which have no connection with the old muscles of the marginal zone. Microcells are formed in a large amount. The extract stimulates the regeneration less than the hydrolysate.  
3) After the injury of the heart the ECG passes an acute, a subacute and a scar stage. The hydrolysate shortens the acute stage and brings about an earlier beginning of the scar stage. In 50% of cases the ECG returns to the norm on the 11-th day after the operation which morphologically corresponds to the restoration of the myocardium. There are 3 figures and 19 references, 12 of which are Soviet.

ASSOCIATION: Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute for Animal Morphology imeni A. N. Severtsov, AS USSR)

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On the Regeneration of the Myocardium in Mammals

28-119-5-55/59

PRESENTED: January 14, 1958, by K. I. Skryabin, Member, Academy of Sciences, USSR

SUBMITTED: January 14, 1958

Card 4/4

POL'ZHAYEV, L.V.; AKHABADZE, I.V.; ZAKHAROVA, N.A.; MANT'YEVA, V.L.

Stimulating the regeneration of the mammalian cardiac muscle  
[with summary in English]. Izv. AN SSSR Ser.biol. 24 no.1:16-33  
Je-F '59. (MIRA 12:2)

1. Institute of Animal Morphology, Academy of Sciences of the  
U.S.S.R., Moscow,  
(HEART--MUSCLE) (REGENERATION (BIOLOGY))

ZAKHAROVA, N.A.; KHROMOV-BORISOV, N.V.

Studies in the series of alkylated aromatic amines. Part 2:  
Interaction between unsymmetrical ditertiary n-phenylenediamines  
and alkyl iodides. Zhur.ob.khim. 30 no.6:1805-1814 Je '60.  
(MIRA 13:6)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh  
nauk SSSR.  
(Phenylenediamine) (Iodide)

KHROMOV-BORISOV, N.V.; ZAKHAROVA, N.A..

Alkylated amines of the aromatic series. Part 4: Role played by the steric factor in quaternization reactions of dimethyl- and diethylaniline. Zhur.ob.khim. 31 no.7:2270-2274 J1 '61.  
(MIRA 14:7)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.  
(Aniline)

ZAKHAROVA, N.A.; KHROMOV-BORISOV, N.V.

Alkylated amines of the aromatic series. Part 5: Production  
of primary-quaternary derivatives of p-phenylenediamine.  
Zhur. ob. khim. 31 no.8:2604-2609 Ag '61. (MIRA 14:8)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh  
nauk SSSR.

(Phenylenediamine)

POLEZHAYEV, L.V.; AKHABADZE, L.V.; ZAKHAROVA, N.A.; YAVICH, M.P.

Effect of pyrogenal and myocardial hydrolyzate on the regeneration of  
the heart muscle. Dokl.AN SSSR 138 no.3:714-717 My '61.  
(MIRA 14:5)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR.  
Predstavлено академиком A.N.Bakulevым.

(Heart—Muscle) (Regeneration (Biology))  
(Pharmacology) (Tissue extracts)

*On the*

ZAKHAROVA, N. A. Cand Chem. Sci -- (diss) "The Problem of the  
Transmission of the Transmission of Electron Effects to the  
2-Aryl-Substituted Series of Benzimidazole." Len, 1957. 15  
14 pp 20 cm. (Min of Higher Education USSR, Len Order of Labor  
Red Banner Technological Inst im Lensoviet), 100 copies  
(KL, 1957, 86)

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